








UNIVERSIDAD
DE LA COSTA
1970

VIGILADA MINEDUCACIÓN

Una solución interactiva para la
enseñanza y el aprendizaje de
ingeniería en la virtualidad

	NOMBRE DEL EVENTO	Una solución interactiva para la enseñanza y el aprendizaje de ingeniería en la virtualidad
	FECHA	12/08/2020
	LUGAR	Barranquilla – Colombia
	ORGANIZADORES DEL EVENTO	Consulta Especializada
	RESUMEN	Palabras claves: knovel, ingeniería, crisis, covid -19

En esta sesión se estará manejando los siguientes temas:

1. Introducción a Elsevier
2. Una introducción rápida a Knovel
3. Cambios en la educación e investigación en ingeniería
 - * Antes del Covid - Crisis 19
 - * Después del Covid - Crisis 19
4. Una mirada en profundidad a Knovel en el aula
5. Hoja de ruta futura de Knovel
6. Ejemplos en vivo de Knovel en el aula.



PARTICIPANTES DESTACADOS

Conferencistas: Ahmed Helmy y Pedro Gallardo

Tipo de evento: Seminario web

Proveedor: Elsevier

Cant. Docentes	6
Cant. Estudiantes	1
Total asistentes	7



ANEXOS

Enlace de inscripción: <https://bit.ly/2WiMvzE>

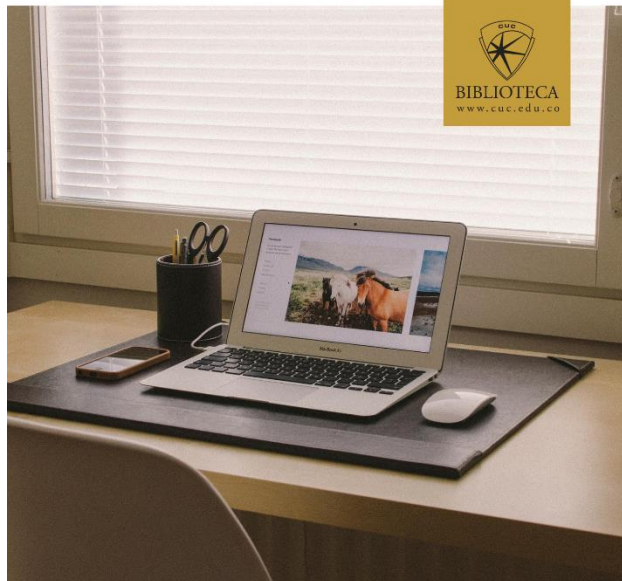
Video de la sesión: <https://www.youtube.com/watch?v=cE40UWszfCE>

ELSEVIER LIVE

WEBINAR GRATUITO

UNA SOLUCIÓN INTERACTIVA PARA LA
ENSEÑANZA Y EL APRENDIZAJE DE INGENIERÍA
EN LA VIRTUALIDAD

Miércoles 12 de Agosto / 9:00 am



ELSEVIER



Una solución interactiva para la enseñanza y el aprendizaje de ingeniería en la virtualidad

Fecha: 12 de agosto

¡Buenos días!

Daremos inicio a la sesión en unos minutos.



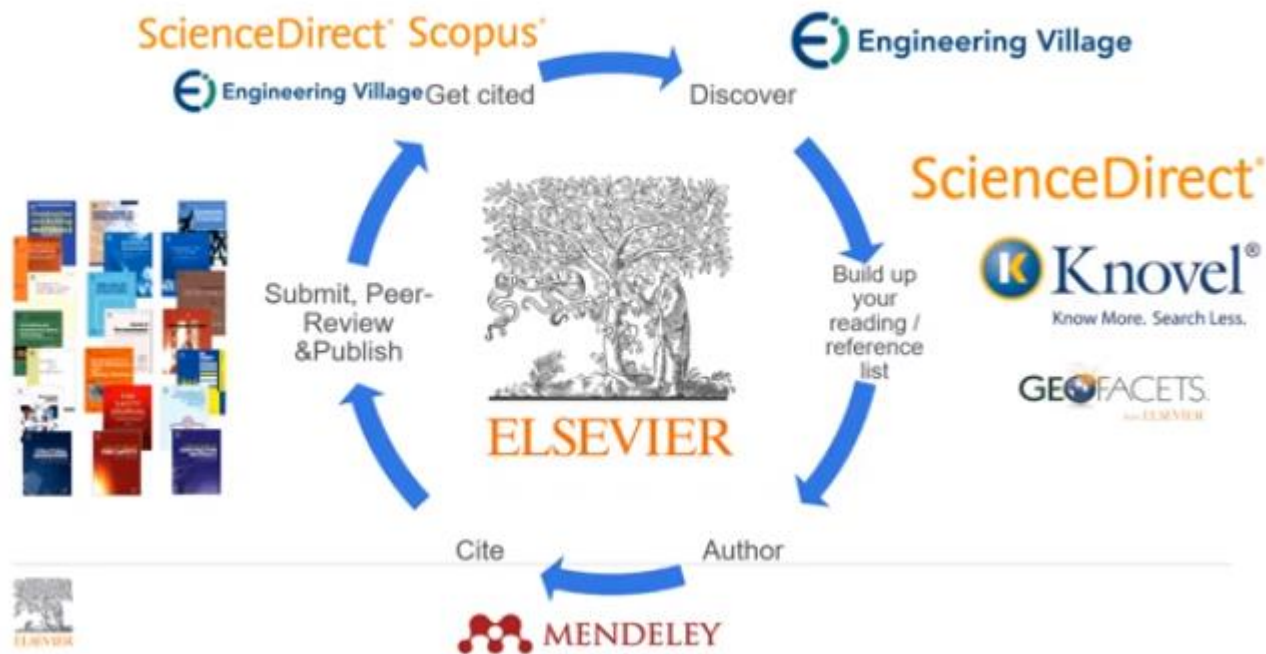
An interactive solution for Teaching & Learning in Engineering within virtuality

Supporting Engineering education (and research) with the right interactive tools

August 12th, 2020
Ahmed Helmy (SSM / CC) | Africa



Elsevier and the knowledge cycle



ELSEVIER

KNOWLEDGE Engineering Solutions

Knovel® A technical Information solution, that delivers reliable technical answers, Supports Scientific workflow, & decision making process. Linking Academia and Research to Industry



ASCE

IET

ASM PRESS

OXFORD

ICHEME

SME

Taylor & Francis

CAMBRIDGE UNIVERSITY PRESS

WILEY



Education before disruption caused by COVID-19

- Lessons took place inside a physical environment in schools.
- Students had constant access to Labs, as well as physical libraries and resources.
- Internet access typically granted through institutional IPs or gateways.
- Direct interaction between students and teachers.
- Increasing need to link academia to the industry needs and updating curriculums to include new technologies and applications.
- Pushing students to use reliable resources and references

7

Namibia



- A young faculty of Engineering, more focus on undergrad education, and slowly building their research output.
- Worked closely with the Dean of Engineering & the Library
- How did Knovel Help:
 - Supporting classroom education with reliable interactive resources.
 - supporting students with remote access to reliable references.
 - changing the undergrad students' culture towards reliable references.
 - supporting the university's research transformation.



The Engineering Problem

Due to Covid 19 lockdown measures, all written exams have been cancelled but for the graduation year's finals .

All junior engineering students are required for the first time to submit Research Paper, Research Project, Survey/Review Paper, Take Home Research Assignment (THRA) to pass for every subject.

Deadline

Less than 1 month.

Stake Holders

- Ministry of Higher Education
- The supreme council for universities
- All Egyptian Universities
- The Egyptian Knowledge Bank



Egyptian Knowledge Bank
بنك المعرفة المصري



MINISTRY OF HIGHER EDUCATION EGYPT

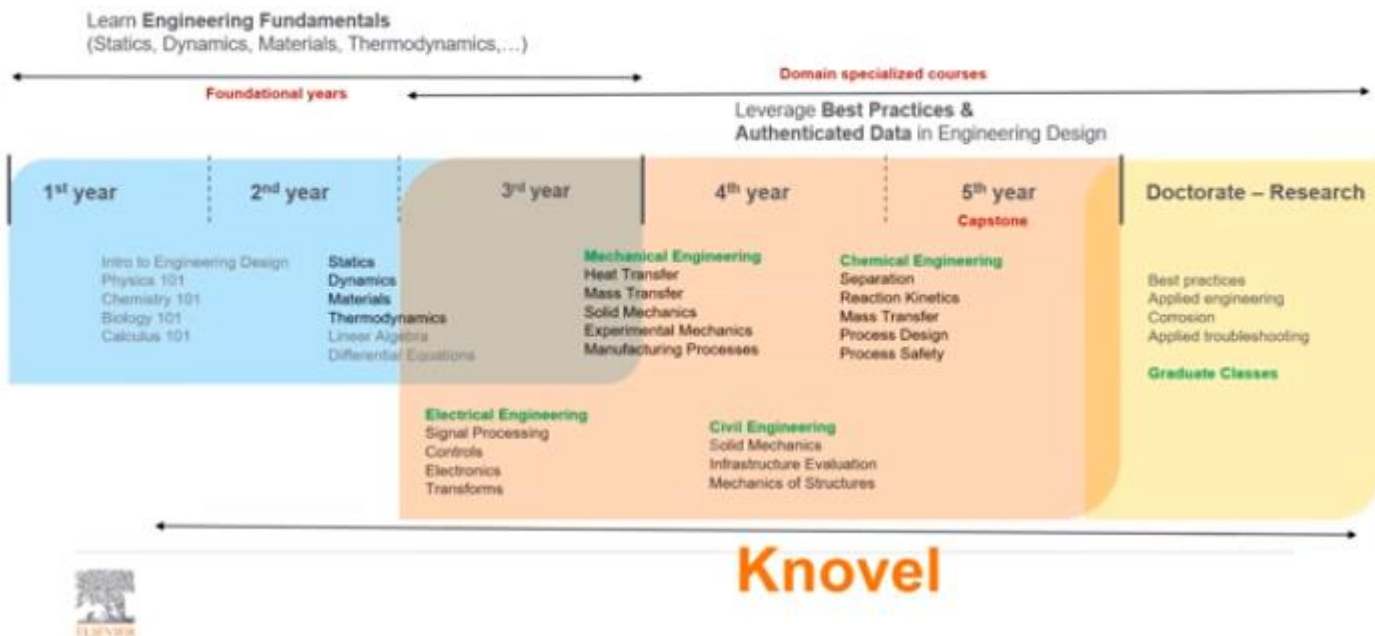


How Did we Help

1. Using Ei Compendex, Knovel to accelerate the students response to the required submissions, they expanded access to all undergrad Engineering students .
2. The Engineering Solutions Team designed a series of online Webinars directed towards all Undergrad Engineering Students across all faculties of Engineering in Egypt to quickly prepare them for the required research papers .



Knovel in Engineering Education

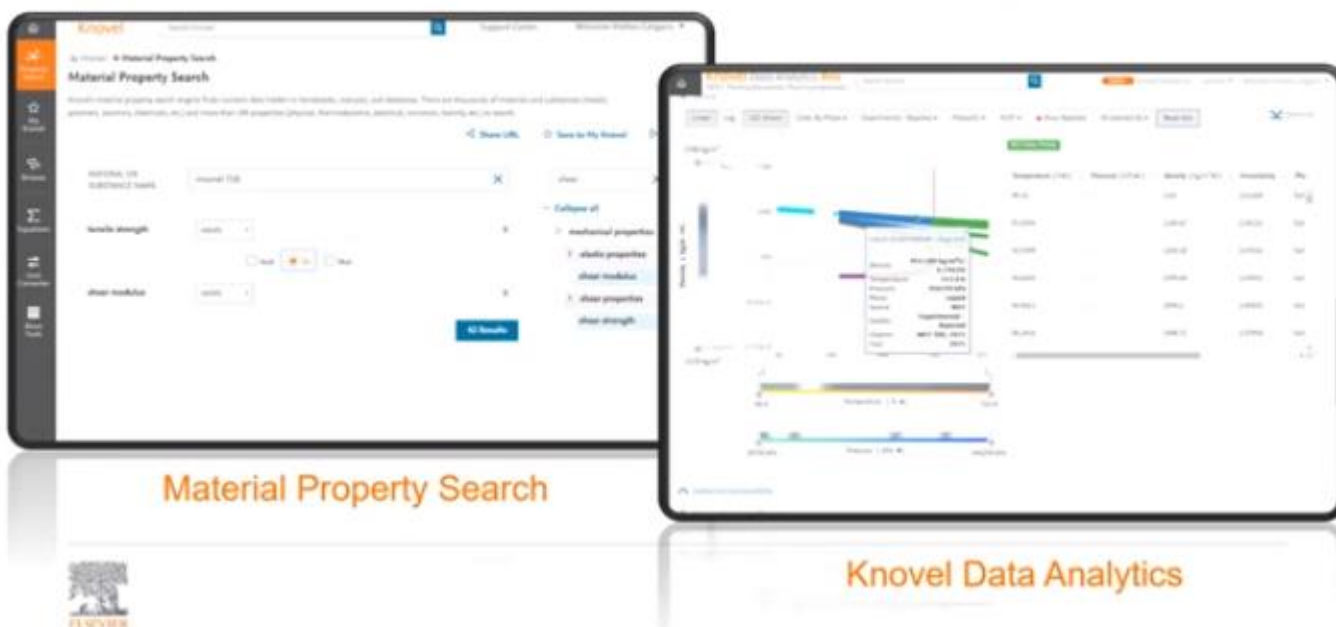


What can Knovel do?

Knovel is an engineering knowledge platform that supports **Students** and **Educators** :

- Access curated **trusted references & data** from 150+ content partners
- Build **interactive** equation worksheets, tables, & graphs
- **Reduce reliance** on **expensive** textbooks
- **Build and augment syllabi and coursework** with interactive references and exercises

Find Material Properties for Homework and Exercises



Identify and Export Data for Reports

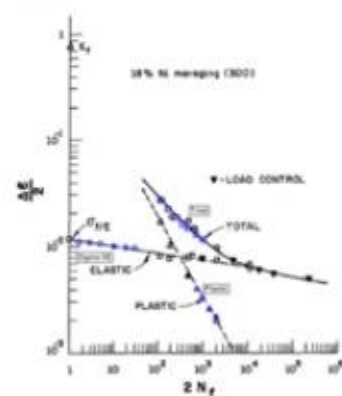


Grade 300 Maraging Steel: Fatigue Life in Terms of Total Strain

Table 1	
Cycles to failure, N_f $\Delta\sigma/2$	
0.442	0.010113
0.797	0.010088
4.938	0.010060
6.797	0.010057
18.33	0.009788
29.33	0.009663

Table 2	
Cycles to failure, N_f $\Delta\sigma/2$	
0.0093	0.027446
0.0443	0.027255
0.1488	0.018171
0.483	0.018219
0.620	0.012151
0.843	0.01393
0.930	0.01243

Table 3	
Cycles to failure, N_f $\Delta\sigma/2$	
0.164	0.004076
0.493	0.003354
0.783	0.002608
0.933	0.002146



Plot of Topical Data
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